



## Job Opening

**Job title:** Scientist or Senior Scientist (depending on qualification)  
**Company:** XG Sciences, Inc., R&D Department  
**Location:** Lansing, Michigan

XG Sciences, Inc. is seeking an experienced Scientist or Senior Scientist to engage in the research and development of advanced electrode materials for Li-ion batteries and electrochemical capacitors.

### Job function:

- Assist in defining research directions and technical strategies for the Energy Group. Engaged in developing roadmaps and work plans. Help develop technical concepts into commercial products.
- Design and synthesize new electrode materials including nano particles, thin and thick films, coatings, and engineered nano-structures.
- Characterize the materials using analytical instruments such as BET, PSD, SEM, XRD, EDS, TGA/DSC, etc.
- Guide the electrode preparation, cell fabrication, and electrochemical testing of the materials.
- Perform teardown analysis and understand failure mechanisms.
- Benchmark state-of-the-art electrode materials.
- Coordinate collaborations with industries, universities, and national labs. Represent XG Sciences at technical conferences and trade shows.
- Write proposals to secure funding from government and industrial sources. Manage funded projects as Principal Investigator or champion of subtasks.
- Supervise junior scientists and technicians.

### Qualification requirements:

- PhD in Materials Science, Electrochemistry, Chemistry, Physics, or related fields.
- >5 years industrial research and development experience in energy storage technologies, preferably Li-ion batteries.
- Understand concepts of battery full-cell design, engineering, and construction
- Good verbal and written communication skills in English.
- Experience in interacting with customers, suppliers, and collaborators.
- Expertise in material synthesis, device design/fabrication, and advanced electrochemical testing.
- A team player with good interpersonal skills.
- Experience in managing funded research and development programs.
- US Citizen or Resident

### About XG Sciences:

Established in 2006 as a spin-off from Michigan State University, XG Science is a global leader in manufacturing graphene nanoplatelets with a 25,000 ft<sup>2</sup> production facility and a 14,000 ft<sup>2</sup> R&D lab. In addition to graphene nanoplatelets, XG Sciences is developing value-added products including Si/graphene composite anode for Li-ion batteries, graphene-based sheet products for thermal and electric



applications, and conductive inks for printed electronics and other industries. The company is currently employing more than 30 people and has more than 600 customers in 37 countries. XG Sciences offers competitive compensation and a complete benefits package which includes medical and dental coverage, 401(K) plan, and paid time off for holidays and vacation days.

**Contact:**

Please fax or email resume and cover letters to:  
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